Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Clever Lever Lab Wrap Up**

1. Write a number sentence to prove that the work done on each side of the fulcrum is the same so therefore the lever is balanced. (work in = work out)

De = 20 cm

Dr = 10 cm

Fe = 2 N

Fr = 4 N

1. Your force is 100 N and you are sitting 3 meters from the fulcrum. How much force does your friend have if he is sitting 2 meters from the fulcrum on the other side and the see saw is balanced? Show your number sentence.
2. C:\Documents and Settings\jkavanagh\Local Settings\Temporary Internet Files\Content.IE5\EYPXIZ5R\MC900078711[1].wmf The man wants to lift the heavy block. Draw a lever. Then draw the fulcrum where you would put it so that the man uses the least force possible and the other end of the lever uses the most force.
3. Explain why you put the fulcrum where you did. Use the words: trade off, more distance, less distance, more force, less force, you, machine.